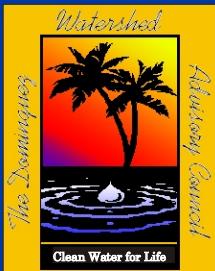
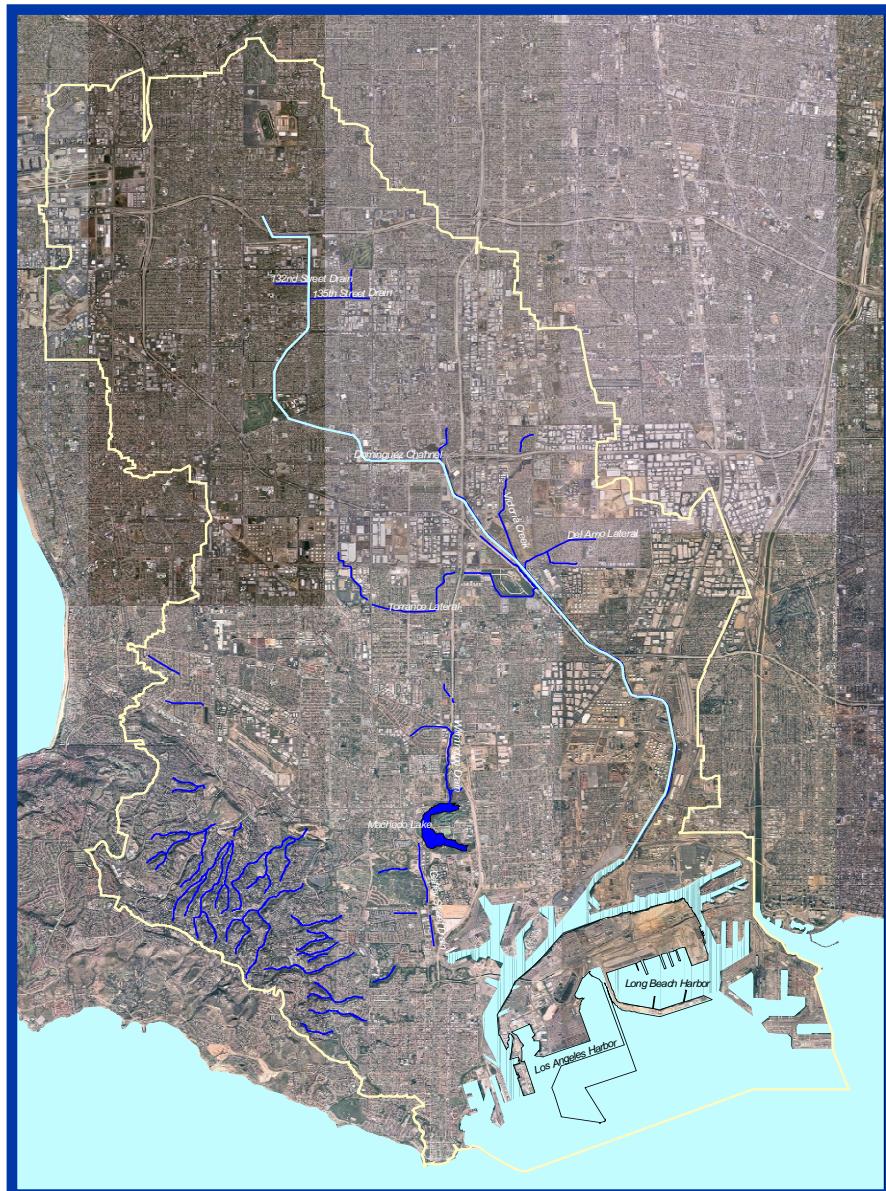


Dominguez Watershed Management Master Plan



MFC ANALYTICAL SYSTEMS INC.
MFC

"An urban industrial watershed in balance with the environment"



Dominguez Watershed Advisory Council
County of Los Angeles Department of Public Works

FINAL

***Dominguez Watershed Management
Master Plan***

County of Los Angeles Department of Public Works
900 South Fremont Avenue, 11th Floor
Alhambra, California 91803-1331

Submitted by:

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Dominguez Watershed Management Master Plan

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ACRONYMS AND ABBREVIATIONS

AAW	Adopt-a-Waterway program
AB	Assembly Bill
ADT	Average daily traffic
af	Acre feet
AQMD	Air Quality Management Plan
ATSF	Atchison, Topeka, and Santa Fe Railway Company
BAT	Best Available Technology
BCT	Best Convention Technology
BEDI	Brownfields Economic Development Initiative
BHC	Benzene hexachloride
BMP	Best Management Practice
BOD	Biological Oxygen Demand
BPTCP	Bay Protection and Toxic Cleanup Program
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CCC	California Coastal Commission
CDFG	California Department of Fish and Game
CDHS	California Department of Health Services
CDMG	California Department of Mines and Geology
CDS	Continuous deflection separator
CEQA	California Environmental Quality Act
CERCLIS	Comprehensive Environmental Response, Compensation & Liability Information System
CESA	California Endangered Species Act
CFR	California Federal Regulation
cfs	Cubic feet per second
CGS	California Geological Survey
cms	Cubic meters per second
CNDB	California Natural Diversity Data Base
CNPS	California Native Plant Society
CO	Carbon monoxide
COC	Constituent of Concern
COD	Chemical Oxygen Demand
County	Los Angeles County
CRA	Colorado River Aqueduct
CREEC	California Regional Environmental Education Community
CSUDH	California State University Dominguez Hills
CSTF	Contaminated Sediment Task Force
CTR	California Toxics Rule
CWA	Clean Water Act
CWSC	California Water Service Company
CZMA	Coastal Zone Management Act
DDT	Dichlorodiphenyltricholorethane
DO	Dissolved Oxygen
DOC	Department of Commerce
DOT	Department of Transportation
DTSC	Department of Toxic Substances Control

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DURRF	Dominguez Urban Runoff Recycling Facility
DWAC	Dominguez Watershed Advisory Council
EBEP	Enclosed Bays and Estuaries Plan
ECP	Erosion Control Plan
EDQL	Ecological Data Quality Level
EFH	Essential Fish Habitat
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EMAP	Environmental Monitoring and Assessment Program
EMC	Event Mean Concentration
EPA	U.S. Environmental Protection Agency
ER-L	Effects Range-Low
ER-M	Effects Range-Median
ERMQ	Effect Range Median quotients
ESA	Endangered Species Act
ESAs	Environmentally Sensitive Areas
EZ/EC	Empowerment Zone/Enterprise Communities
FAA	Federal Aviation Administration
FBO	Fixed Base Operators
FDA	Food and Drug Administration
FMP	Fishery Management Plan
ft	Feet
GIS	Geographic Information System
HDSFR	High-density single family residential
HUD	Department of Housing and Urban Development
IC ₅₀	50% Inhibitory Concentration
ISWP	Inland Surface Waters Plan
JWPCP	Joint Water Pollution Control Plant
km	kilometer
KMHRP	Ken Malloy Harbor Regional Park
L	Liter
LAA	Los Angeles Aqueduct
LACDPW	Los Angeles County Department of Public Works
LADWP	Los Angeles Department of Water and Power
LAHD	Los Angeles Harbor Department
LARWPCB	Los Angeles Regional Water Pollution Control Board
LARWQCB	Los Angeles Regional Water Quality Control Board
LAX	Los Angeles International Airport
LBWD	Long Beach Water Department
LC ₅₀	50% Lethal Concentration
LCP	Local Coastal Program
LDSFR	Low-density single family residential
LLNL	Lawrence Livermore National Laboratory
m	Meters
maf	Million acre feet
MBAS	Methylene Blue Active Substances
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MEP	Maximum Extent Practicable

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MFR	Multi-family residential
MGD	Million gallons per day
mi	Mile
mL	Milliliter
MPN	Most probable number
MS4	Municipal Separate Storm Sewer System
mt	Metric ton
MTA	Los Angeles County Metropolitan Transportation Authority
MTBE	Methyltertiary butyl ether
mtpy	Metric tons per year
MW	Megawatts
MWD	Metropolitan Water District of Southern California
NAAQS	National ambient air quality standards
NAPL	Non-aqueous phase liquid
NEPA	National Environmental Protection Act
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOI	Notice of Intent
NO ₂	Nitrogen dioxide
NO _x	Nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NTR	National Toxics Rule
NURP	Nationwide Urban Runoff Program
O ₃	Ozone
PAHs	Polynuclear aromatic hydrocarbons
Pb	Lead
PCBs	Polychlorinated biphenyls
PCE	Tetrachloroethylene
pH	Acidity/Aalkinity
PIPP	Public Information and Participation Program
PM _{2.5}	Fine particulate matter equal to or less than 2.5 microns in size
PM ₁₀	Particulate matter equal to or less than 10 microns in size
POTW	Publicly owned treatment works
ppb	Parts per billion
ppm	Parts per million
QA/QC	Quality Assurance/Quality Control
RARE	Rare, threatened, or endangered species beneficial use category
RCRA	Resource Conservation and Recovery Act
REC-1	Water contact recreation beneficial use category
REC-2	Non-contact water recreation beneficial use category
ROC	Reactive organic compounds
RWQCB	Regional Water Quality Control Board
SAL	State action level
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison Company

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SCWC	Southern California Water Company
SCWRP	Southern California Wetland Recovery Project
SCCWRP	Southern California Coastal Water Research Project
SEA	Significant Ecological Areas
Section 303(d) List	List of Impaired Water Bodies
SERRF	Southeast Resource Recovery Facility
SFB	San Fernando Basin
SIC	Standard Industrial Classification
SMBRP	Santa Monica Bay Restoration Project
SMURRF	Santa Monica Urban Runoff Recycling Facility
SO ₂	Sulphur dioxide
South Bay COG	South Bay Council of Governments
SP	Southern Pacific Transportation company
SQMP	Stormwater Quality Management Program
SR	State Route
SRF	State Revolving Fund
SSC	California Species of Special Concern
SUSMP	Standard Urban Storm Water Mitigation Plan
SVOCs	Semi-volatile Organic Compounds
SWAMP	Surface Water Ambient Monitoring Program
SWANCC	Solid Waste Agency of Northern Cook County
SWP	State Water Project
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
taf	Thousand acre feet
TBT	Tributyltin
TCE	Trichloroethylene
TDS	Total dissolved solids
TEA	Transportation Enhancement Activities
TEA21	Transportation Equity Act of the 21 st Century
TEL	Lower threshold effect level
The California Water Code	Porter-Cologne Water Quality Control Act
TIE	Toxicity Identification Evaluation
TITP	Terminal Island Treatment Plant
TKN	Total Kjeldahl Nitrogen
TMDL	Total Maximum Daily Load
TOC	Total organic carbon
tpy	Tons per year
TRE	Toxicity Reduction Evaluation
TSS	Total suspended solids
TU	Toxicity Unit
µg	Microgram
UP	Union Pacific Railway Company
USACE	U.S. Army Corps of Engineers
USBR	United States Bureau of Reclamation
USDOE	U.S. Department of Energy
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Service

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VOCs	Volatile Organic Compounds
WARM	Warm freshwater habitat beneficial use category
WBMWD	West Basin Municipal Water District
WCB	West Coast Basin
WMMP	Watershed Management Master Plan
WRD	Water Replenishment District of Southern California
WSPA	Western States Petroleum Association
WY	Water Year
yr	Year

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GLOSSARY

Antidegradation Policy

Requires that existing high-quality waters be protected and maintained unless the need to lower water quality is justified.

Beneficial Uses

Defined as the uses of water necessary for the survival or well being of man, plants, and wildlife. Beneficial uses are designated in the Basin Plan for water bodies within the region. Examples include municipal and domestic supply, water contact recreation, wildlife habitat, and warm water aquatic habitat.

BMPs (Best Management Practices)

Schedules of activities, pollutant treatment practices or devices, prohibitions of practices, general good housekeeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices or devices to prevent or reduce the discharge of pollutants directly or indirectly to receiving waters or the storm water conveyance system. BMPs also include but are not limited to treatment practices, operating procedures, and practices to control runoff, spillage of leaks, or drainage from raw materials storage. BMPs may include any type of pollution prevention, pollution control, or pollution treatment measure.

Brownfields

A term used to describe vacant, abandoned, or underutilized commercial or industrial property that has or is perceived to have hazardous waste contamination that may require clean up before the land can be redeveloped.

Daylight Historic Streams

The action of removing overlying land and pipeline associated with a buried storm drain, and then restoring the historical tributary or stream is referred to as daylighting.

Developer

A person who seeks or receives permits for or who undertakes land development activities.

Illicit Connection

A pipe, facility, or other device connected to the storm water conveyance system or receiving waters, which has not been reviewed and authorized by the City; or a permitted pipe, facility, or other device that subsequently conveys illegal discharges.

Illicit Discharge

Any discharge into urban runoff, the storm water conveyance system, or receiving waters that is prohibited. This includes, but is not limited to, discharges of non-storm water that are not exempt discharges, any discharge from an illegal connection, and any discharge that contains additional pollutants due to the absence of a required BMP or failure of a BMP. Discharges that require a County permit or a RWQCB permit that has not been issued or has not been acknowledged by the Discharger to be applicable are illegal discharges. Discharges regulated under an applicable RWQCB or County permit or SWPPP are illegal discharges unless compliance with all applicable permit and SWPPP conditions is maintained.

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Impaired Water Body

Water body listed by the State Water Resources Control Board (SWRCB) as impaired by a particular pollutant of concern.

Impervious Surface

Constructed or modified surfaces that cannot effectively infiltrate rainwater. The term includes, but is not limited to, rooftops, pavement, sidewalks, and driveways.

Infiltrate

The process of percolating storm water or non-storm water into the soil.

Infiltration BMP

Any structural treatment BMP designed to percolate water into the soil, such as an infiltration trench or basin.

MEP (Maximum Extent Practicable)

The acceptability standard for BMPs. A BMP is considered effective if it prevents, reduces, or removes the pollutants that otherwise would be present in runoff due to human activity.

MS4 (Municipal Separate Storm Sewer System)

System of conveyances (including roads, streets, catch basins, curbs, gutters, ditches, natural drainage features or channels) for urban runoff.

Non-Point Source

Diffuse, widespread sources of pollution. Non-point sources include but are not limited to urban, agricultural, or industrial areas, roads, highways, construction sites, communities served by septic systems, and/or recreational boating activities.

Non-Structural BMP

A management practice or activity designed to reduce pollutants and/or to avoid the introduction pollutants to the storm water conveyance system, and/or to control the source of pollutants. Examples of non-structural BMPs include good housekeeping practices, employee training programs, preventative maintenance practices, public education and outreach, self-inspection and quality assurance practices, and spill response planning.

Pollutant

Any agent that may cause or contribute to the degradation of water quality such that public health, the environment, or beneficial uses of the waters may be affected.

Pollution Prevention Plan

Document that meets the requirements of a Storm Water Pollution Prevention Plan (SWPPP) set out in the State General Construction Storm Water Permit or State General Industrial Storm Water Permit.

Pollution Prevention Practices

Non-structural methods to prevent pollution from entering the storm water conveyance system such as use of smaller quantities of toxic materials, substitution of less toxic materials, changes to production processes to reduce waste, decreases in wastewater flows, segregation of wastes, and/or treatment of wastes onsite to decrease volume and/or toxicity.

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Receiving Waters

All waters that are “Waters of the State” within the scope of the State Water Code, including, but not limited to, natural streams, creeks, rivers, reservoirs, lakes, ponds, water in vernal pools, lagoons, estuaries, bays, the Pacific Ocean, and groundwater.

Redevelopment

Any construction, alteration or improvement of an already developed site that will increase the total impervious surface area of that site, or that involves activities that could expose contaminants to rainfall.

Retrofit

A BMP designed for an existing development site or activity that previously had either no BMPs in place or that relied on BMPs inadequate to meet the storm water management requirements of the site or activity.

Storm Water

Urban runoff consisting only of those discharges that originate from a precipitation event.

(SWPPP) Storm Water Pollution Prevention Plan

A document that describes the BMPs to be implemented and other steps to be taken by the Discharger to meet the requirements set out in the General Construction Storm Water Permit or General Industrial Storm Water Permit.

Structural BMP

Any BMP that relies on either a physical condition (other than an entirely natural and undisturbed condition), or on a constructed or installed device to reduce or prevent pollutants in storm water discharges or non-storm water discharges. Constructed or enhanced BMPs also may depend on natural materials and processes (e.g., buffers, constructed swales, treatment wetlands), that require periodic maintenance to function as designed.

Tributary to an Impaired Water Body

A channel, stream, or ephemeral stream that conveys urban runoff to an impaired water body.

Urban Runoff

All flows in a storm water conveyance system and consists of the following components: (1) storm water (wet weather flows) and (2) non-storm water discharges (dry weather flows).

Watercourse

A permanent, ephemeral, or intermittent stream or other body of water, either natural or improved, which gathers or carries surface water.

Watershed

The geographically defined drainage area which drains to a receiving water body (e.g., Los Angeles Harbor).

Water Quality Objectives

Numeric and/or narrative limits or bans on substances, water characteristics, and activities.

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Water Quality Standards

The water quality standards adopted by the State of California include water quality objectives, beneficial uses, and an antidegradation policy.